Product Data



# HydroControl A Shutoff valves PN 25 / PN 16 DN 15...50



The HydroControl A is a shutoff valve for pipelines in heating and cooling systems.

It consists of a flow optimised Y-pattern body, a valve insert with low pitch, double O-ring sealing and ergonomically designed handwheel as well as a HydroPort auxiliary valve. All functions are accessible from the top.

#### Functions

- Shutoff
- Connection for impulse tube
- Quick connection for the impulse tube of the HydroControl D differential pressure regulator
- Filling, draining and venting

#### Features

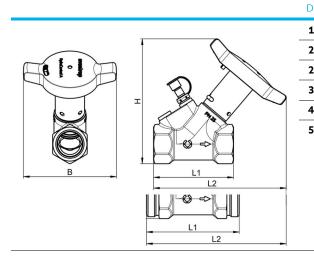
- + Reliable and robust design
- + All functions always included for easy connection
- + New HydroPort auxiliary valve for easy, quick and safe connection of accessories

# **Product Details**

## Technical Data

| Nominal sizes   | DN 1550   |  |  |  |
|---|---|--|--|--|
| Variants  | With internal thread according to EN 10226<br>With external thread according to ISO 228 |  |  |  |
| Operating temperature   | -20150 °C   |  |  |  |
| Operating pressure  | Internal thread: max. 25 bar / PN 25<br>External thread: max. 16 bar / PN 16            |  |  |  |
| Medium Heating and cooling water according to VDI 2035 or ÖNORM 5195   Water-glycol mixtures with max. 50% glycol content |   |  |  |  |
| Kvs values  | 4.149.8   |  |  |  |

## Dimensions



| INTERN          | AL THR  | EAD  | EXTER  | NAL TRE   | IEAD  |   |   |   |
|-----------------|---|--|--|---|---|---|---|---|
| Connec-<br>tion | L <b>1</b><br>[mm]  | L <b>2</b><br>[mm]   | Connec-<br>tion  | L <b>1</b><br>[mm]  | L <b>2</b><br>[mm]  | B<br>[mm]   | H<br>[mm]   | Weight<br>[kg]  |
| Rp 1⁄2          | 72  | 142  | G ¾  | 88  | 149   | 109   | 129   | 0.57  |
| Rp ¾            | 84  | 152  | G 1  | 93  | 154   | 109   | 136   | 0.67  |
| Rp 1            | 98  | 160  | G 1 ¼  | 109   | 164   | 109   | 147   | 0.99  |
| Rp 1 ¼          | 116   | 172  | G 1 ½  | 134   | 182   | 109   | 157   | 1.44  |
| Rp <b>1</b> ½   | 124   | 177  | G 1 ¾  | 144   | 187   | 109   | 164   | 1.80  |
| Rp <b>2</b>     | 155   | 195  | G 2 ¾  | 166   | 204   | 109   | 184   | 3.10  |
|                 | Connec-<br>tion<br>Rp ½<br>Rp ¾<br>Rp 1<br>Rp 1 ¼<br>Rp 1 ½ | Connec-<br>tion   L1<br>(mm)     Rp ½   72     Rp ¾   84     Rp 1   98     Rp 1 ¼   116     Rp 1 ½   124 | tion   [mm]   [mm]     Rp ½   72   142     Rp ¾   84   152     Rp 1   98   160     Rp 1 ¼   116   172     Rp 1 ½   124   177 | Connec-<br>tion   L1<br>[mm]   L2<br>[mm]   Connec-<br>tion     Rp ½   72   142   G ¾     Rp ¾   84   152   G 1     Rp 1   98   160   G 1 ¼     Rp 1 ¼   116   172   G 1 ½     Rp 1 ½   124   177   G 1 ¾ | Connection   L1   L2   Connection   L1     Rp ½   72   142   G ¾   88     Rp ¾   84   152   G 1   93     Rp 1   98   160   G 1¼   109     Rp 1¼   116   172   G 1½   134     Rp 1½   124   177   G 1¾   144 | Connec-<br>tion   L1<br>[mm]   L2<br>[mm]   Connec-<br>tion   L1<br>[mm]   L2<br>[mm]     Rp ½   72   142   G ¾   88   149     Rp ¾   84   152   G 1   93   154     Rp 1   98   160   G 1 ¼   109   164     Rp 1 ¼   116   172   G 1 ¾   134   182     Rp 1 ½   124   177   G 1 ¾   144   187 | Connection   L1   L2   Connection   L1   L2   B     Rp ½   72   142   G ¾   88   149   109     Rp ¾   84   152   G 1   93   154   109     Rp 1   98   160   G 1 ¼   109   164   109     Rp 1 ¼   116   172   G 1 ½   134   182   109     Rp 1 ½   124   177   G 1 ¾   144   187   109 | Connection   L1   L2   Connection   L1   L2   B   H     Rp ½   72   142   G ¾   88   149   109   129     Rp ¾   84   152   G 1   93   154   109   136     Rp 1   98   160   G 1 ¼   109   164   109   147     Rp 1 ¼   116   172   G 1 ¾   134   182   109   157     Rp 1 ½   124   177   G 1 ¾   144   187   109   164 |

### Item Numbers



INTERNAL THREAD



EXTERNAL THREAD

| DN | Kvs  | Connection size | ltem no. | Connection size | Item no. |
|----|------|-----------------|----------|-----------------|----------|
| 15 | 4.1  | Rp ½            | 1067524  | G ¾             | 1067624  |
| 20 | 7.8  | Rp 3⁄4          | 1067526  | G 1             | 1067626  |
| 25 | 14.1 | Rp 1            | 1067528  | G 1 1⁄4         | 1067628  |
| 32 | 24.8 | Rp 1 1⁄4        | 1067530  | G 1 ½           | 1067630  |
| 40 | 32.4 | Rp 1 1⁄2        | 1067532  | G 1 ¾           | 1067632  |
| 50 | 49.8 | Rp 2            | 1067536  | G 2 3⁄8         | 1067636  |

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#### Accessories

#### HydroPort adapter

| HydroPort adapter |   | Suitable for      | Item no. |
|-------------------|---|-------------------|----------|
|                   | With external thread G 34.  | All nominal sizes | 1069601  |
|                   | For connecting accessories to HydroPort auxiliary valves.<br>Also suitable for permanent connection, e.g. for impulse<br>tubes of third-party controllers. This adapter is not required<br>for connecting the impulse tube of the HydroControl D. |                   |          |

#### Insulation shells Suitable for Item no. Only for heating systems. Meets the requirements of Appendix 8 to section 69 and 71 (1), line ee) of the German Building Energy Act (GEG). Building material class B2 1069610 DN 15 DN 20 1069611 according to DIN 4102 / E according to EN 13501-1. DN 25 1069612 Operating temperature up to 110 °C. Oy 1069613 DN 32 1069614 DN 40 DN 50 1069615 Fittings Size Suitable for Item no. Connection set with externally threaded tailpipes. 1140792 R 1⁄2 DN 15 DN 20 1140793 R 3⁄4 Consisting of two tailpipes, unions nuts and sealing rings. R 1 DN 25 1140794 Suitable for HydroControl A with R 1 ¼ DN 32 1140795 external threads.

R 1 ½

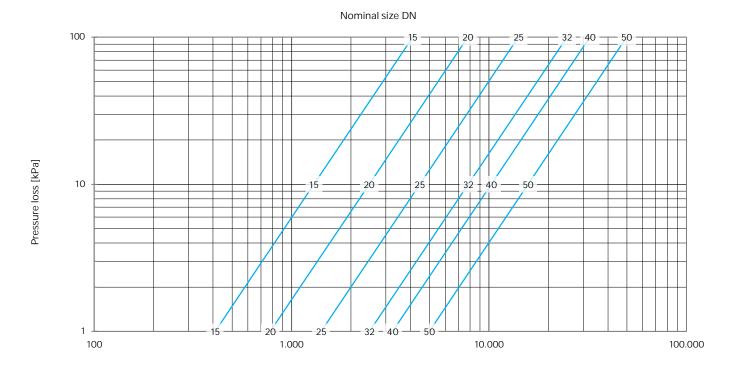
R 2

DN 40

DN 50

# Sizing

## Flow Chart



Flow rate [l/h]

#### Kvs values

| DN <b>15</b> | DN <b>20</b> | DN <b>25</b> | DN <b>32</b> | DN <b>40</b> | DN <b>50</b> |
|--------------|--------------|--------------|--------------|--------------|--------------|
| 4.1          | 7.8          | 14.1         | 24.8         | 32.4         | 49.8         |

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